

Specification No. 51-A-1012-A

MODIFICATION

OF

HAND GENERATOR GN-58

18 September 1951

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1. GENERAL.-

1.1. Purpose of the Specification.-

1.1.1. The purpose of this specification is to describe the modification requirements for Hand Generator Set GN-58 and to formulate technical requirements governing the modification of this equipment.

1.1.2. The principal parts making up GN-58 are: Generator, two cranks, leg with seat (LG-2-A and seat), two legs (LG-3-B). There are no modifications to be made to the generator and cranks, and these specifications will not apply to them. The modified unit shall be designated as GN-58-M.

1.2. Requirements of the Specification.-

1.2.1. The modification of five units herein described that meet each and every requirement of this specification. These units shall be modified from production tools and setups and by production methods.

1.2.2. The submission of a complete set of manufacturing drawings covering all parts and details necessary for the modification of this equipment in production quantities. Where special processes relative to modification are required, full instructions and information must be included in the manufacturing drawings. These drawings must be directly reproducible.

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- 1.2.3. The compilation and submission of a complete bill of materials for all nonfabricated components. This bill of materials shall list each component; shall identify each as to size, type, capacity, and tolerance; shall identify the manufacturer of each; and shall state the cost of each in quantities required for production lots of 1000 complete units.—
- 1.2.4. The modification of and delivery of a quantity of GN-58 sets according to a schedule as directed by the contracting officer. This production may begin only after submittal and approval of Paragraphs 1.2.1., 1.2.2., and 1.2.3. above.
- 1.3. Conditions for the Submittal of Prototypes.—
  - 1.3.1. It is to be specifically noted that the contractor must deliver the items listed in Paragraphs 1.2.1., 1.2.2., and 1.2.3. simultaneously. Prototypes submitted without the remaining items will not be considered.
- 1.4. Disposition and Subsequent Sale.—
  - 1.4.1. Upon completion of this contract, all prototype models, jigs, molds, tools, fixtures, drawings, and components that were produced for this program shall become the property of the United States Government. Upon conclusion of the contract, the contracting officer will furnish instructions for the disposition of the above material.

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1.4.2. The subsequent sale of any of the results of this contract, either tangible or intangible, for any consideration shall be prohibited with the sole exception that sales may be made to other United States Government agencies only at the discretion of the contracting officer.

1.5. Critical Materials Clause.-

The contractor shall endeavor to keep the use of critical materials to a minimum and shall furnish at the earliest possible date a complete list of the types and quantities of materials to be used in the fulfillment of his contract.

2. GENERAL REQUIREMENTS.-

2.1. Markings.-

2.1.1. The name, trademark, or other identification of the contractor shall not appear at any place or on any portion of this unit, nor shall the contractor permit the name or trademark of any subcontractor to be placed on any subcontracted component.

2.2. Finish.-

2.2.1. All edges and holes that were machined during modification shall be properly burred.

2.2.2. The inserts and components shall have a finish that will resist corrosion and prevent galvanic action.

2.2.3. All exterior surfaces shall be spray painted with matching O-D paint so that no base material is visible when the legs are assembled.

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2.3. Workmanship.-

2.3.1. All manufactured parts shall be of good-quality workmanship, and inspection standards shall be maintained to determine quality and adherence to manufacturing tolerances.

2.3.2. Proper clearances shall be maintained on mating parts to allow free fits without excessive play and to allow interchangeability among all inserts, legs, and component parts. LG-3-B shall be allowed to rotate 180 degrees and still have easy insertion of a locking pin.

3. METHOD OF MODIFICATION.-

3.1. Government Drawings No. 2043-1 and 2043-2 show the suggested methods for the modification of the Hand Generator Set GN-58.

3.2. All inserts shall be manufactured of aluminum-alloy and all component parts of cadmium-plated steel.

3.3. The contractor may suggest other methods of modification and/or other materials and submit them to the contracting officer for his prior approval.

4. TESTS.-

4.1. Inspection of the units for workmanship, quality of materials, adherence to specifications, and tolerances shall be made by Government engineers as required.

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